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NEWS 2 "Ask CAS" for self-help around the clock
NEWS 3 SEP 09 CA/CAPLUS records now contain indexing from 1907 to the present
NEWS 4 DEC 08 INPADOC: Legal Status data reloaded
NEWS 5 SEP 29 DISSABS now available on STN
NEWS 6 OCT 10 PCTFULL: Two new display fields added
NEWS 7 OCT 21 BIOSIS file reloaded and enhanced
NEWS 8 OCT 28 BIOSIS file segment of TOXCENTER reloaded and enhanced
NEWS 9 NOV 24 MSDS-CCOHS file reloaded
NEWS 10 DEC 08 CABA reloaded with left truncation
NEWS 11 DEC 08 IMS file names changed
NEWS 12 DEC 09 Experimental property data collected by CAS now available in REGISTRY
NEWS 13 DEC 09 STN Entry Date available for display in REGISTRY and CA/CAPLUS
NEWS 14 DEC 17 DGENE: Two new display fields added
NEWS 15 DEC 18 BIOTECHNO no longer updated
NEWS 16 DEC 19 CROPU no longer updated; subscriber discount no longer available
NEWS 17 DEC 22 Additional INPI reactions and pre-1907 documents added to CAS databases
NEWS 18 DEC 22 IFIPAT/IFIUDB/IFICDB reloaded with new data and search fields
NEWS 19 DEC 22 ABI-INFORM now available on STN

NEWS EXPRESS DECEMBER 28 CURRENT WINDOWS VERSION IS V7.00, CURRENT MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP), AND CURRENT DISCOVER FILE IS DATED 23 SEPTEMBER 2003
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NEWS WWW CAS World Wide Web Site (general information)

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=> file medline, uspatful, dgene, wpids, fsta, biosis, jicst,biobusiness
COST IN U.S. DOLLARS SINCE FILE TOTAL

FULL ESTIMATED COST

ENTRY SESSION
0.63 0.63

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FILE 'USPATFULL' ENTERED AT 14:36:52 ON 21 JAN 2004
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=> s restenosis reduction
L1 55 RESTENOSIS REDUCTION

=> s l1 and biocompatible sustained release
L2 0 L1 AND BIOCOMPATIBLE SUSTAINED RELEASE

=> s biocompatible or non-biodegradable sustained release form
L3 59265 BIOCOMPATIBLE OR NON-BIODEGRADABLE SUSTAINED RELEASE FORM

=> s l3 and l1
L4 5 L3 AND L1

=> d 14 ti abs ibib tot

L4 ANSWER 1 OF 5 USPATFULL on STN

TI Potent coatings for stents

AB A stent having an expandable stent body with a generally tubular shape comprises a series of support surfaces upon which a polymer stent coating has been applied. One or more bioactive agents are disposed within the coating. The coating is applied by evaporating solvent from a solution which has been applied to the stent surfaces from a pressurized reservoir or positive displacement pumping means attached to a delivery tube. The delivery tube's longitudinal or X-Y-Z position along the body of the stent, the rotation of the stent along its longitudinal axis, and the delivery rate are coordinated by a programmable controller to deposit precise and repeatable amounts of polymer and agent on the stent surfaces. Preferably, an anti-restenosis agent consisting of a potent analogue or derivative of tranilast are disposed in a bioerodable stent coating, comprising poly(lactic acid), or, alternatively, in a biodurable stent coating comprising EVA.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2003:128092 USPATFULL

TITLE: Potent coatings for stents

INVENTOR(S): Shulze, John E., Rancho Santa Margarita, CA, UNITED

STATES

Betts, Ronald E., La Jolla, CA, UNITED STATES

Savage, Douglas R., Del Mar, CA, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003088307	A1	20030508
APPLICATION INFO.:	US 2002-150909	A1	20020516 (10)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2001-337970P	20011105 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	J.C. Patents, Suite 250, 4 Venture, Irvine, CA, 92618	
NUMBER OF CLAIMS:	49	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	15 Drawing Page(s)	
LINE COUNT:	1120	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 2 OF 5 USPATFULL on STN

TI Method for delivering a therapeutic substance to a body lumen
 AB A method for delivering a therapeutic substance to a body lumen utilizing an intravascular stent having a coating comprising a polymer and a therapeutic substance in a solid/solid solution with the polymer. The coating comprises a first coating layer nearer the stent body having a first concentration of therapeutic substance overlaid by a second porous coating layer having a second lesser concentration of therapeutic substance. The inclusion of a porous polymer coating layer on the stent helps retain the therapeutic substance on the stent during expansion of the stent and also controls the administration of the therapeutic substance following implantation. By this method, drugs such as dexamethasone can be applied to a stent, retained on a stent during expansion of the stent and elute at a controlled rate.

ACCESSION NUMBER: 1998:127661 USPATFULL
 TITLE: Method for delivering a therapeutic substance to a body lumen
 INVENTOR(S): Tuch, Ronald J., Plymouth, MN, United States
 PATENT ASSIGNEE(S): Medtronic, Inc., Minneapolis, MN, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5824048		19981020
APPLICATION INFO.:	US 1996-731106		19961009 (8)
RELATED APPLN. INFO.:	Division of Ser. No. US 1995-482246, filed on 7 Jun 1995, now patented, Pat. No. US 5679400 which is a continuation-in-part of Ser. No. US 1993-52878, filed on 4 Apr 1993, now patented, Pat. No. US 5464650		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Prebilic, Paul B.		
LEGAL REPRESENTATIVE:	Latham, Daniel W., Patton, Harold R.		
NUMBER OF CLAIMS:	9		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	6 Drawing Figure(s); 5 Drawing Page(s)		
LINE COUNT:	621		

L4 ANSWER 3 OF 5 USPATFULL on STN

TI Intravascular stent and method
 AB A device for delivery of a therapeutic substance into a body lumen including a polymer in intimate contact with a drug on a stent allows the drug to be retained on the stent during expansion of the stent and also controls the administration of drug following implantation. The adhesion of the coating and the rate at which the drug is delivered can

be controlled by the selection of an appropriate bioabsorbable or biostable polymer and the ratio of drug to polymer.

ACCESSION NUMBER: 1998:78456 USPATFULL
TITLE: Intravasoular stent and method
INVENTOR(S): Tuch, Ronald J., Plymouth, MN, United States
PATENT ASSIGNEE(S): Medtronic, Inc., Minneapolis, MN, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5776184		19980707
APPLICATION INFO.:	US 1996-728541		19961009 (8)
RELATED APPLN. INFO.:	Division of Ser. No. US 1995-482346, filed on 7 Jun 1995, now patented, Pat. No. US 5679400 which is a continuation-in-part of Ser. No. US 1993-52878, filed on 26 Apr 1993, now patented, Pat. No. US 5464650		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Milano, Michael J.		
ASSISTANT EXAMINER:	Nguyen, Tram Anh T.		
LEGAL REPRESENTATIVE:	Latham, Daniel W., Patton, Harold R.		
NUMBER OF CLAIMS:	12		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	6 Drawing Figure(s); 5 Drawing Page(s)		
LINE COUNT:	614		

L4 ANSWER 4 OF 5 USPATFULL on STN

TI Intravascular stent and method

AB A method for making an intravascular stent by applying to the body of a stent a solution which includes a solvent, a polymer dissolved in the solvent and a therapeutic substance dispersed in the solvent and then evaporating the solvent. The inclusion of a polymer in intimate contact with a drug on the stent allows the drug to be retained on the stent during expansion of the stent and also controls the administration of drug following implantation. The adhesion of the coating and the rate at which the drug is delivered can be controlled by the selection of an appropriate bioabsorbable or biostable polymer and the ratio of drug to polymer in the solution. By this method, drugs such as dexamethasone can be applied to a stent, retained on a stent during expansion of the stent and elute at a controlled rate.

ACCESSION NUMBER: 97:96606 USPATFULL
TITLE: Intravascular stent and method
INVENTOR(S): Tuch, Ronald J., Plymouth, MN, United States
PATENT ASSIGNEE(S): Medtronic, Inc., Minneapolis, MN, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5679400		19971021
APPLICATION INFO.:	US 1995-482346		19950607 (8)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1993-52878, filed on 26 Apr 1993, now patented, Pat. No. US 5464650		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Dudash, Diana		
LEGAL REPRESENTATIVE:	Latham, Daniel W., Patton, Harold R.		
NUMBER OF CLAIMS:	11		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	6 Drawing Figure(s); 5 Drawing Page(s)		
LINE COUNT:	640		

L4 ANSWER 5 OF 5 USPATFULL on STN

TI Intravascular stent and method
AB A method for making an intravascular stent by applying to the body of a stent a therapeutic substance and then overcoating the therapeutic substance with a porous polymer. The inclusion of a porous polymer in intimate contact with a drug on the stent allows the drug to be retained on the stent during expansion of the stent and also controls the administration of drug following implantation. The adhesion of the coating and the rate at which the drug is delivered can be controlled by the selection of an appropriate bioabsorbable or biostable polymer.

ACCESSION NUMBER: 97:35680 USPATFULL
TITLE: Intravascular stent and method
INVENTOR(S): Tuch, Ronald J., Plymouth, MN, United States
PATENT ASSIGNEE(S): Medtronic, Inc., Minneapolis, MN, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5624411		19970429
APPLICATION INFO.:	US 1995-483005		19950607 (8)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1993-52878, filed on 26 Apr 1993, now patented, Pat. No. US 5464650		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Green, Randall L.		
ASSISTANT EXAMINER:	Van Over, Perry E.		
LEGAL REPRESENTATIVE:	Latham, Daniel W., Patton, Harold R.		
NUMBER OF CLAIMS:	27		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	6 Drawing Figure(s); 5 Drawing Page(s)		
LINE COUNT:	724		

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FILE 'MEDLINE, USPATFULL, DGENE, WPIDS, FSTA, BIOSIS, JICST-EPLUS, BIOBUSINESS' ENTERED AT 14:36:52 ON 21 JAN 2004

L1 55 S RESTENOSIS REDUCTION
L2 0 S L1 AND BIOCOMPATIBLE SUSTAINED RELEASE
L3 59265 S BIOCOMPATIBLE OR NON-BIODEGRADABLE SUSTAINED RELEASE FORM
L4 5 S L3 AND L1

=> s l1 and vascular surgical procedure
L5 0 L1 AND VASCULAR SURGICAL PROCEDURE

=> s polymer () matrix
L6 23975 POLYMER (W) MATRIX

=> s restenosis () reduction
L7 55 RESTENOSIS (W) REDUCTION

=> s l7 and l6
L8 1 L7 AND L6

=> d 18 ti abs ibib tot

L8 ANSWER 1 OF 1 USPATFULL on STN
TI Potent coatings for stents
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solution which has been applied to the stent surfaces from a pressurized reservoir or positive displacement pumping means attached to a delivery tube. The delivery tube's longitudinal or X-Y-Z position along the body of the stent, the rotation of the stent along its longitudinal axis, and the delivery rate are coordinated by a programmable controller to deposit precise and repeatable amounts of polymer and agent on the stent surfaces. Preferably, an anti-restenosis agent consisting of a potent analogue or derivative of tranilast are disposed in a bioerodible stent coating, comprising poly(lactic acid), or, alternatively, in a biodurable stent coating comprising EVA.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2003:128092 USPATFULL

TITLE: Potent coatings for stents

INVENTOR(S): Shulze, John E., Rancho Santa Margarita, CA, UNITED STATES

Betts, Ronald E., La Jolla, CA, UNITED STATES
Savage, Douglas R., Del Mar, CA, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003088307	A1	20030508
APPLICATION INFO.:	US 2002-150909	A1	20020516 (10)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2001-337970P	20011105 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	J.C. Patents, Suite 250, 4 Venture, Irvine, CA, 92618	
NUMBER OF CLAIMS:	49	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	15 Drawing Page(s)	
LINE COUNT:	1120	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

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FILE 'MEDLINE, USPATFULL, DGENE, WPIDS, FSTA, BIOSIS, JICST-EPLUS, BIOBUSINESS' ENTERED AT 14:36:52 ON 21 JAN 2004

L1 55 S RESTENOSIS REDUCTION
L2 0 S L1 AND BIOCOMPATIBLE SUSTAINED RELEASE
L3 59265 S BIOCOMPATIBLE OR NON-BIODEGRADABLE SUSTAINED RELEASE FORM
L4 5 S L3 AND L1
L5 0 S L1 AND VASCULAR SURGICAL PROCEDURE
L6 23975 S POLYMER () MATRIX
L7 55 S RESTENOSIS () REDUCTION
L8 1 S L7 AND L6

=> s taxol and 17

L9 1 TAXOL AND L7

=> d 19 ti abs ibib tot

L9 ANSWER 1 OF 1 USPATFULL on STN

TI Potent coatings for stents

AB A stent having an expandable stent body with a generally tubular shape comprises a series of support surfaces upon which a polymer stent coating has been applied. One or more bioactive agents are disposed within the coating. The coating is applied by evaporating solvent from a solution which has been applied to the stent surfaces from a pressurized

reservoir or positive displacement pumping means attached to a delivery tube. The delivery tube's longitudinal or X-Y-Z position along the body of the stent, the rotation of the stent along its longitudinal axis, and the delivery rate are coordinated by a programmable controller to deposit precise and repeatable amounts of polymer and agent on the stent surfaces. Preferably, an anti-restenosis agent consisting of a potent analogue or derivative of tranilast are disposed in a bioerodible stent coating, comprising poly(lactic acid), or, alternatively, in a biodurable stent coating comprising EVA.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2003:128092 USPATFULL

TITLE: Potent coatings for stents

INVENTOR(S): Shulze, John E., Rancho Santa Margarita, CA, UNITED STATES

Betts, Ronald E., La Jolla, CA, UNITED STATES

Savage, Douglas R., Del Mar, CA, UNITED STATES

NUMBER	KIND	DATE
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PATENT INFORMATION:

US 2003088307 A1 20030508

APPLICATION INFO.:

US 2002-150909 A1 20020516 (10)

NUMBER	DATE
--------	------

PRIORITY INFORMATION:

US 2001-337970P 20011105 (60)

DOCUMENT TYPE:

Utility

FILE SEGMENT:

APPLICATION

LEGAL REPRESENTATIVE: J.C. Patents, Suite 250, 4 Venture, Irvine, CA, 92618

NUMBER OF CLAIMS:

49

EXEMPLARY CLAIM:

1

NUMBER OF DRAWINGS: 15 Drawing Page(s)

LINE COUNT: 1120

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

Refine Search

Search Results -

Terms	Documents
4824436.pn.	1

- US Pre-Grant Publication Full-Text Database
- US Patents Full-Text Database
- US OCR Full-Text Database
- EPO Abstracts Database
- JPO Abstracts Database
- Derwent World Patents Index
- IBM Technical Disclosure Bulletins

Database:

Search:

L24

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Search History

DATE: Wednesday, January 21, 2004 [Printable Copy](#) [Create Case](#)

DB=USPT; PLUR=YES; OP=OR

L24 4824436.pn

L23 3940422.pn. 1 L23

L22 5393772.pn

L21 5385935,pn. 1 L21

L20 6491938.pn

L19 6358989, pp. 1 L19

L18 6306421.pn

L17 6171609 pp. 1 L17

L16 5677295 pn

L15 5563145 pp

L14 5563143 nn

L13 5525610 pp

L12 5504091 pp

L11 5496581 pp

<u>L10</u>	5462966.pn.	1	<u>L10</u>
<u>L9</u>	5422362.pn.	1	<u>L9</u>
<u>L8</u>	5416205.pn.	1	<u>L8</u>
<u>L7</u>	5411967.pn.	1	<u>L7</u>
<u>L6</u>	5387680.pn.	1	<u>L6</u>
<u>L5</u>	5362718.pn.	1	<u>L5</u>
<u>L4</u>	53025841.pn.	0	<u>L4</u>
<u>L3</u>	5290271.pn.	1	<u>L3</u>
<u>L2</u>	5252235.pn.	1	<u>L2</u>
<u>L1</u>	5175235.pn.	1	<u>L1</u>

END OF SEARCH HISTORY